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TITLE: IMAGE REPRODUCING AND DISPLAYING DEVICE

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## INVENTOR-INFORMATION:

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## ABSTRACT:

PURPOSE: To display a full-color, bright, definition picture by allowing a spacial light modulating element to amplify images holographically recorded on a record ing medium and projecting the images on the screen.

CONSTITUTION: A large number of images are holographically recorded on an optical disk 3. When light beams from a laser light source 5 irradiate the hologram, they are diffracted to reproduce and from images in the spacial light modulating element 1, and turn into writing light. Reading light made incident on the element 1 is converted into s-polarized light according to the brightness of a written image. However, only the reflected, p-polarized light passes through a polarized beam splitter prism 8d, and therefore the output of the reading light from the prism 8d is intensity-modulated according to the written image, and a lens 8e forms the image on a screen 9. A high-brightness halogen lamp is used for the light source 8 of reading light, and accordingly an image projected on the screen 9 is extremely bright.

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